REMARKS

Claims 12 to 15, 17, 18, 20 and 21 remain pending. Claims 12, 17, 21 have been amended by the above changes to further distinguish from the cited prior art and to simplify the claim wording.

I. Claim Changes

Changes have been made in the independent claims to limit the compounds of formula III to pyridine derivatives. In other words, the pyrimiding derivatives have been excluded from the agent by limiting both A and B to Caronnal III.

In view of the limitation of the independent claims to pyridine compound of formula III, the wording of step a) has been simplified by deletion of the notion of the notio

Claim 18 has been amended so that it is now an independent claim be including the features and limitations of claim 12 in it.

II. Allowable Subject Matter

Claim 18 was found to be allowable according to paragraph 3 on page.
The Office Action, however it was objected to because it depended on a reject
Dase claim, namely claim 12.

Claim 18 has now been amended so that it includes the features and

imitations of claim 12 and is independent. Also step a) of the amended has been limited to pyridine derivatives because the particular compound in claim 18 originally is a pyridine derivative.

旅程记:, For the foregoing reasons and because of the changes in cl allowance of the amended claim 18 is respectfully requested.

III. Obviousness Rejections

Claims 12 to 15, 17, 20 and 21 were rejected as obvious under 35 103 (a) over Hocquaux, et al, alone, or in view of Tuloup, et al.

Hocquax, et al, disclose pyrimidine 3-oxide derivatives, which are tautomeric with the compounds of formula III, when A = N and B = CH. Actually Hocquax, et al, only disclosed pyrimidine 3-oxides. Tuloup, et al, was cited to show that these compounds have tautomers that are examples of the compounds of formula III with A = N and B = CH.

Hocquaux, et al, also do teach that these compounds are useful to treatment of hair loss.

However the independent method claims 12 and 21 of the above idea USP Patent Application have now been amended to exclude pyrimidine oxide derivatives or their tautomers from the agent compounds used in the method the agent has now been limited to pyridine derivatives only of the formula it noted above this corresponds to the requirement that A = B = CH in formula

Furthermore Hocquaux, et al, does not disclose or suggest that any oviidine derivatives of the formula III are useful to treat hair loss or to prome hair growth. The only pyridine compounds that this reference suggests we helpful in treating hair loss or promoting hair growth are nicotinic acid (claim and the nicotinic acid esters disclosed in column 3, lines 27 to 32, and claim However the nicotinic acid and nicotinic acid esters lack the amine and/or of groups present in the compounds of formula III. They are clearly not amine exides for example.

A method for treating hair loss by applying the pyridine derivatives of formula III of amended claims 12 and 21 would not be obvious from the disclosure of a method for treating hair loss disclosed in Hocquaux, et al, while employs nicotinic acid and/or nicotinic acid esters. For example, the pyridine compounds of formula III have too many structural differences in substituent groups to be obvious from the nicotinic acid esters.

Similarly Tuloup, et al, does not disclose or suggest a method of treating hair loss or promoting hair growth in which an agent comprising a pyridine derivative of formula III of the amended claims 21 and 12 is applied. Again the closest pyridine derivatives suggested for application in Tuloup, et al, have too many structural differences from the applicants' pyridine derivatives of formula to suggest a method of treatment using them. Tuloup, et al, also suggests incitioling the nicotinic acid esters at column 4, lines 10 to 12, and in dependents.

It is well established by many U.S. Court decisions that to reject a claim invention under 35 U.S.C. 103 there must be some hint or suggestion in the sattor the modifications of the disclosure in a prior art reference or references.

used to reject the claimed invention, which are necessary to arrive at the claimed invention. For example, the Court of Appeals for the Federal Circuit has sai

"Rather, to establish obviousness based on a combination of element disclosed in the prior art, there must be some motivation, suggestion teaching of the desirability of making the specific combination that we made by the applicant... Even when obviousness is based on as single reference there must be a showing of a suggestion of motivation to the teachings of that reference..." *In re Kotzab*, 55 U.S.P.Q. 2nd 1313 (Fed. Cir. 2000). See also M.P.E.P. 2141

There is no hint or suggestion of the modifications of the method of treatment using an agent containing a nicotinic acid derivative and/or nicotinis acid disclosed in Hocquaux, et al, and/or Tuloup, et al, which are necessary to arrive at the applicants' claimed method in amended claims 12 and 21. Too method in amended claims 12 and 21 and 21 arrive at the pyridine derivatives of the interest of the pyridine derivatives of the interest and a claimed in claims 12 and 21 from these nicotinic acid derivatives.

As far as the pyrimidine 3-oxides of both references go, there are countless ways to modify these compounds besides replacing a ring hifroge atom with a CH group. The chemical and physical properties of pyrimidine derivatives are different from those of pyridine derivatives and biological systems as enzyme systems, are sensitive to small structural differences. Neither cited reference provides any guidance regarding how to modify the pyrimidical reference provides any guidance regarding how to modify the pyrimidical cited reference provides any guidance regarding how to modify the pyrimidical compounds that are effective for treating ham or proposed in the pyrimidical compounds and the pyrimidical compounds that are effective for treating ham or proposed in the pyrimidical compounds and pyridine derivatives of formula III.

For the foregoing reasons and because of the changes in indepe method claims 12 and 21, withdrawal of the rejection of claims 12 to 15 and 21 as obvious under 35 U.S.C. 103 (a) over Hocquaux, et al, alone o of Tuloup, et al, is respectfully requested.

Should the Examiner require or consider it advisable that the specific claims and/or drawing be further amended or corrected in formal respects t this case in condition for final allowance, then it is requested that such amendments or corrections be carried out by Examiner's Amendment and th case passed to issue. Alternatively, should the Examiner feel that a personal discussion might be helpful in advancing the case to allowance, he or she is invited to telephone the undersigned at 1-631-549 4700.

In view of the foregoing, favorable allowance is respectfully solicited

Respectfully submitted,

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